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## NOTICE OF ALLOWANCE AND FEE(S) DUE

30827

7590

04/08/2008

MCKENNA LONG & ALDRIDGE LLP 1900 K STREET, NW WASHINGTON, DC 20006

EXAMINER					
DUONG, THOI V					
ART UNIT	PAPER NUMBER				
2071					

DATE MAILED: 04/08/2008

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO.

10/688,920 10/21/2003 Woo Hyun Kim 8734.034.C1 3193

TITLE OF INVENTION: LIQUID CRYSTAL DISPLAY PANEL COMPRISING DATA LINES HAVING ALTERNATELY DIFFERENT EXTENDED LENGTHS TO DATA PADS AT RESPECTIVELY DIFFERENT LEVELS ABOVE THE SUBSTRATE.

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/08/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

appropriate. All further coindicated unless corrected maintenance fee notification	orrespondence includin below or directed oth	g the Patent, advance of erwise in Block 1, by (	rders and notification of a) specifying a new corre	maintenance fees v spondence address	vill be m ; and/or (	nailed to the current (b) indicating a sepa	corresponde arate "FEE <i>A</i>	nce address as ADDRESS" for
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								(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	₹	ATTOR	NEY DOCKET NO.	CONFIRM	IATION NO.
10/688,920	10/21/2003		Woo Hyun Kim		8	3734.034.C1	31	193
TITLE OF INVENTION: LENGTHS TO DATA PAI					KNATEL	Y DIFFERENT EX	TENDED	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DA	TE DUE
nonprovisional	NO	\$1440	\$300	\$0		\$1740	07/	/08/2008
EXAMIN	IER	ART UNIT	CLASS-SUBCLASS	]				
DUONG, T		2871	349-149000					
1. Change of correspondence CFR 1.363).		`	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys  1					
Change of correspon Address form PTO/SB/1	idence address (or Chai 122) attached.	nge of Correspondence	or agents OR, alternati	ively,				
"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
3. ASSIGNEE NAME AND	D RESIDENCE DATA	TO BE PRINTED ON	THE PATENT (print or ty	rpe)				
PLEASE NOTE: Unles recordation as set forth i	s an assignee is identi in 37 CFR 3.11. Comp	fied below, no assignee letion of this form is NC	data will appear on the p T a substitute for filing an	oatent. If an assign assignment.	ee is ide	ntified below, the d	locument has	been filed for
(A) NAME OF ASSIGN	NEE		(B) RESIDENCE: (CIT	Y and STATE OR (	COUNTR	RY)		
Please check the appropriat	te assignee category or		* .			n or other private gr		
4a. The following fee(s) are	e submitted:	4	<ul> <li>b. Payment of Fee(s): (Ple</li> <li>A check is enclosed.</li> </ul>	ase first reapply a	ny previo	ously paid issue fee	shown abov	e)
Publication Fee (No	small entity discount p	ermitted)	Payment by credit card. Form PTO-2038 is attached.					
Advance Order - # of Copies			The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
5. Change in Entity Status  a. Applicant claims S	*		☐ b. Applicant is no lor				FR 1.27(g)(2	2).
NOTE: The Issue Fee and I interest as shown by the red	Publication Fee (if requeords of the United Stat	ired) will not be accepte es Patent and Trademarl	ed from anyone other than coffice.	the applicant; a regi	istered at	torney or agent; or tl	he assignee o	r other party in
Authorized Signature				Data				
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an application. Confidentia submitting the completed a this form and/or suggestion Box 1450, Alexandria, Virg Alexandria, Virginia 22313 Under the Paperwork Redu	lity is governed by 35 application form to the as for reducing this burginia 22313-1450. DO 3-1450.	U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR	1.14. This collection is esty depending upon the inding the Chief Information Offic COMPLETED FORMS T	stimated to take 12 vidual case. Any cover, U.S. Patent and O THIS ADDRESS	minutes tomments Tradema S. SEND	to complete, includir on the amount of ti ark Office, U.S. Dep TO: Commissioner	ng gathering, me you requi artment of C for Patents, I	preparing, and ire to complete ommerce, P.O. P.O. Box 1450,
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10/688,920	10/21/2003	Woo Hyun Kim	8734.034.C1	3193		
30827 7590 04/08/2008		EXAMINER				
MCKENNA LONG & ALDRIDGE LLP			DUONG, THOI V			
1900 K STREET,			ART UNIT	PAPER NUMBER		
WASHINGTON, DC 20006		2871				
			DATE MAILED: 04/08/2008			

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/688,920	KIM ET AL.			
Notice of Allowability	Examiner	Art Unit			
	Thei V. Dueng	2071			
	Thoi V. Duong	2871			
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communication GHTS. This application is subject	application. If not included on will be mailed in due course. <b>THIS</b>			
1. 🔀 This communication is responsive to the suppemental ame	endment filed January 23, 2008.				
2. The allowed claim(s) is/are <u>25-41</u> .					
<ul><li>3.  Acknowledgment is made of a claim for foreign priority un</li><li>a)  All b)  Some* c)  None of the:</li></ul>	nder 35 U.S.C. § 119(a)-(d) or (f).				
<ol> <li>Certified copies of the priority documents have</li> </ol>	been received.				
2. 🛛 Certified copies of the priority documents have	been received in Application No.	<u>10/012,395</u> .			
3. Copies of the certified copies of the priority doc	cuments have been received in thi	s national stage application from the			
International Bureau (PCT Rule 17.2(a)).		-			
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ly complying with the requirements			
4. A SUBSTITUTE OATH OR DECLARATION must be subminification (PTO-152) which give					
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.				
(a) ☐ including changes required by the Notice of Draftspers		O-948) attached			
1) hereto or 2) to Paper No./Mail Date	•	,			
(b) ☐ including changes required by the attached Examiner's		Office action of			
Paper No./Mail Date					
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the					
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of Informal	Detent Application			
<ol> <li>In Notice of References Cited (PTO-692)</li> <li>In Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	5. Notice of Informal	, ,			
2.   Notice of Draftperson's Patent Drawing Review (PTO-948)	6.	Date .			
3. Information Disclosure Statements (PTO/SB/08),	7. 🛛 Examiner's Amen	dment/Comment			
Paper No./Mail Date 10/21/03 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stater	ment of Reasons for Allowance			
of Biological Material	9.				

### **DETAILED ACTION**

1. This office action is in response to the Amendment filed January 23, 2008.

Accordingly, claim 26 was amended, and claims 1-24 were cancelled. Currently, claims 25-41 are pending in this application.

#### **EXAMINER'S AMENDMENT**

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In the claims:

Claim 26: in line 7, after "the data pads" delete "includes" and insert --include--.

In the title: the title is changed as --Liquid crystal display panel comprising data lines having alternately different extended lengths to data pads at respectively different levels above the substrate--.

### Allowable Subject Matter

3. Claims 25-41 are allowed.

The following is an examiner's statement of reasons for allowance: none of the prior art of record fairly suggests or shows all of the limitations as claimed.

Specifically, re claim 25, none of the prior art of record discloses, in combination with other limitations as claimed, an LCD panel comprising a plurality of data lines

crossing the gate lines and having alternatively different extended lengths to the data pads at respectively different levels above the insulating substrate.

The most relevant reference, US 6,683,669 B1 to Fujikawa, fails to disclose or suggest a plurality of data lines having alternatively different extended lengths at respectively different levels above the insulating substrate. As shown in Fig. 1(a), Fujikawa only discloses the data lines 3 having alternatively different extended lengths 7 to the data pads 8.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thoi V. Duong whose telephone number is (571) 272-2292. The examiner can normally be reached on Monday-Friday from 8:30 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms, can be reached at (571) 272-1787.

/Thoi V. Duong/ - Primary Examiner

April 03, 2008